

Serial Number: 09/673,605A CRF Errors Corrected by the STIC System

Branch

CRF Processing Date: 5/28/2002
Edited by: AN
Verified by: AN (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: inserted hard returns globally; globally corrected spelling of "Pseudomonas"

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT09

RAW SEQUENCE LISTING

DATE: 05/28/2002

PATENT APPLICATION: US/09/673,605A

TIME: 20:01:34

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05282002\I673605A.raw

pp 6-9

```

4 <110> APPLICANT: The President and Fellows of Harvard College
6 <120> TITLE OF INVENTION: REGULATION OF BIOFILM FORMATION
9 <130> FILE REFERENCE: 00246/505003
11 <140> CURRENT APPLICATION NUMBER: 09/673,605A
12 <141> CURRENT FILING DATE: 2000-10-17
14 <150> PRIOR APPLICATION NUMBER: 60/102,870
15 <151> PRIOR FILING DATE: 1998-10-02
17 <150> PRIOR APPLICATION NUMBER: 60/083,259
18 <151> PRIOR FILING DATE: 1998-04-27
20 <160> NUMBER OF SEQ ID NOS: 49
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1090
26 <212> TYPE: DNA
27 <213> ORGANISM: Pseudomonas fluorescens
29 <220> FEATURE:
30 <221> NAME/KEY: variation
31 <222> LOCATION: (1)...(1090)
32 <223> OTHER INFORMATION: n is a, t, c, or g.
34 <400> SEQUENCE: 1
W--> 35 gagcgacgna gaggaagn gn gggagganga ggaaggagga gagnggaaga aggggggaag 60
W--> 36 gggagggggg aaggagagn ggggagnngg gggnatnngg gannngggng gggngngggn 120
W--> 37 ntgnntatna tnanctccg gccggacgaa gaaattcccg atgcattgct cgagcgcgta 180
W--> 38 ggccgtgtctc gggacaaggt caaccacgta ttcagcaaag tgctcnaggc ggaantgctg 240
W--> 39 ctgcgcgaac tggcctcgca ntccagccac ggctgaatag gctcgcccgg tcatttgatc 300
40 tttccacgc tctgcgtggg aatgcacccc gtgacgctct gcgtcacatc tcagaagcgg 360
W--> 41 aacgcggagc gtccctggcg acnttcccnc ncaggggagcg tggggaaccn ancaaacntg 420
W--> 42 gtcccccctga ttntaaagtt ctcccttaaa ancttcttnc gggcttccag ggtatttttg 480
W--> 43 tccanccccc ttgggaaccc anatcccccga ggcggccccg ggttgccccn tttgatccctg 540
W--> 44 gggattccga ctttgttcct tgnaaatccc cccttccatt gaaaccnccc angtttngcc 600
W--> 45 ttttgtttcc ctttgggccc ntnccaatcc gntgnggcaa aaacgcccac tanggggng 660
W--> 46 gggcggtccc ccccccneg nntgttactn aantncanaa cgccnnttg gccanaaann 720
W--> 47 tcnctngng nnnnnncnnc gncntctttn ctncctntcc nnnctntnt cctcngtgta 780
W--> 48 tntccaantc ntncnncgc cntcncgccc tccccactnc ctngcccctc cnnncnncg 840
W--> 49 cgttncattn ctccnccntn ntccgcttnt cccctttan cgtngccgtt ncccgccegn 900
W--> 50 ncnngtca tcnntgncgc tcttccnccc nccctgtccn cccantgccn ngnnnctccg 960
W--> 51 aggtcgnggg tctcncnccc nccngnttcg tgcncnggcn cngatcccg ttcncnccng 1020
W--> 52 nccntnatgc tgaccagtnn gngngngtng nnnccctccc tcnagnactg tntngngggg 1080
W--> 53 ggcccccnc 1090
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 277
57 <212> TYPE: DNA
58 <213> ORGANISM: Pseudomonas fluorescens

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60 <220> FEATURE:
61 <221> NAME/KEY: variation
62 <222> LOCATION: (1)...(277)
63 <223> OTHER INFORMATION: n is a, t, c, or g.
65 <400> SEQUENCE: 2
W--> 66 ggnnggggngng ggncttgtgt ataaatntca ggctctgaca tccaggccgc aggcggcctg 60
W--> 67 gtcccnatgg ttatcgacca ntccgcccgc ggcnangtg cctatnanat ctactcncgt 120
W--> 68 ctgctcaang aacgcgtcat ctttctgggtg ggcccggtaa aagactacat ggccnacctg 180
W--> 69 atctgtgcgc aactnttgtt ccttgaancc naaaacccgn acnaggatat ccatctctat 240
W--> 70 atcaacnccc cnggtactag ttcaacccgt gaaaaaa 277
72 <210> SEQ ID NO: 3
73 <211> LENGTH: 819
74 <212> TYPE: DNA
75 <213> ORGANISM: Pseudomonas fluorescens
77 <220> FEATURE:
78 <221> NAME/KEY: variation
79 <222> LOCATION: (1)...(819)
80 <223> OTHER INFORMATION: n is a, t, c, or g.
82 <400> SEQUENCE: 3
W--> 83 gctngtgtct acgntcagc aanaatgccg cccgcgacna caacncttaa tcngetgaaa 60
W--> 84 ntccattgga tgatgtcca cccgtccatc cnancctgga agccaggatt nctgcccgc 120
W--> 85 atnanggtnc ggggtggcaac aatctcaccg naacctgnnc ctgtggtcac aancgagggt 180
W--> 86 caggtcacca cggncgtccc ggcaccggtt gcccncctgg tcaggccggg ccagggnncg 240
W--> 87 gtngccccag angtcnatcc tccctttgac cctnaancng acccgcnca tgcntggcna 300
W--> 88 ccnttgcntt tggcaatgga ccngggngga catnttncg cccgctatcc agggcnac 360
W--> 89 ccaanantac ngccccggcg tccctctann ntntactatt cnacgcgtgg gcananntgc 420
W--> 90 ccctngtngg cttncctttc tcttccccgn cncctntttt tccccnnntt tttttgncgc 480
W--> 91 gncccnctct cnntccctnc cttcccnnnn cntcgtctn nnnccctngt gggcctcnc 540
W--> 92 cttttntcct tcttccnncn tttntctcgg tgccctnct ctctgnttcc ncnngtngc 600
W--> 93 gtccggttan cccagcctcg ctctccnccg ctgnngcnet ctentttctt gcttctctt 660
W--> 94 ccctgtggcc ctntgcgatc ncnanctt ctcctcgtc nggtcncanc cttngtntc 720
W--> 95 cgcnnngnc gncnccctnc tctngncn nntcgtctt cgtnnncnng tncnncnncn 780
W--> 96 ncagtcnngt gtngnnagnt tnnecnagtn tgnnatecc 819
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 832
100 <212> TYPE: DNA
101 <213> ORGANISM: Pseudomonas fluorescens
103 <220> FEATURE:
104 <221> NAME/KEY: variation
105 <222> LOCATION: (1)...(832)
106 <223> OTHER INFORMATION: n is a, t, c, or g.
108 <400> SEQUENCE: 4
W--> 109 gatggtatcg gtnactcggg caccgctggg gtggtgctcg gaacagggtc tcgaagtcc 60
110 cgccagtggc cttatcgatg ctgacttcaa ctttgcccgc gtctttgtag acgtcgtctt 120
111 ttggtgcgtc gacagtcaag gtgcccggcg tggcgcccgc agcgatgttg atcaccgcgc 180
112 cgttgctcag ggtcacagt acaggcgagc ccgcggcggtt ggtcaagggt gcggtgtaaa 240
113 cgatcgaacc gccttcgca acgctatcgg ttgcaactaa agtcaggccg gtagtgcct 300
W--> 114 gaatgtctgt nanngtgggtg tngccggggg tggcgccan gtccaatatt tcataattnc 360
W--> 115 nacctgggg tctccannt tnannctcaa gttatcgccc cccccaaag gtcctttng 420

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W--> 116 cgtnacnaaa ttcaccgann cccanctggc nccnaaccgg aanggtgang gtctggggccg 480
W--> 117 ttcnaacang gttmnataac caaacggaac ntcgggtcac cggtttcntt taacngaagg 540
W--> 118 nggtgttnna accncggncc cnccttccgg ccaangngng aaattnneng gtgggnggaa 600
W--> 119 aanaggtcna ngtttttnaan gggtttccng tnancntcnt nnncccnan ggntttnttn 660
W--> 120 ntnanaaacc aaanntcncc ngaatttncc nccnggtngg nttttnneng nannnnngaa 720
W--> 121 nttnnngggt gggnnnnccn ntcctttgtt tnnaaaatna nncnttttng ggnccnnnc 780
W--> 122 naaaagggnc anngnggnc cnnntggggn ggnnnccnnn gggncnaag nt 832

```

124 <210> SEQ ID NO: 5

125 <211> LENGTH: 1054

126 <212> TYPE: DNA

127 <213> ORGANISM: Pseudomonas fluorescens

129 <220> FEATURE:

130 <221> NAME/KEY: variation

131 <222> LOCATION: (1)...(1054)

132 <223> OTHER INFORMATION: n is a, t, c, or g.

134 <400> SEQUENCE: 5

```

W--> 135 cncaanggcn cagagcacag gatatgcngc aatctcatgg acaaacggcg ccagcccnat 60
W--> 136 ggaggccacc gacnccacat ccgtcgcgcc ggctcgcttg aggcncgcca acgcancctc 120
W--> 137 aagggtctgc gccanttgca ncnctncctc gncaccanc cnnagttgcc agcncncaa 180
W--> 138 actccccacc ncnaanncnc ntnacnaaat nntgggtttc cgnataccgc ccnactcac 240
W--> 139 gcaccaattg ctcaccncng gcctgaacna actggtcggt ncnctncccg ccccatcnc 300
W--> 140 tggttnaaac nggcnattc cttnaccccc agcaacancn aataaccggg acctggccan 360
W--> 141 cncggggtng ctcaccgggg cattaaactg cattttcaaa atatnnccgg ttggccacgc 420
W--> 142 ccgtnagggt gtccgtntag gatecnaccc ccantttcnc tntgcccctn ggnctgntcn 480
W--> 143 nggaanngnn ccntgagctt tctcgacct ctgggtttct tntcntgcn cccactcncg 540
W--> 144 nnncaagttt taaggtnntn nctccgggna atcctctnng gcnannnctt naactgnaaa 600
W--> 145 ctccnccga acngggncct aanantagnc ctatnngggg nnacnngcgt tgnccaaccn 660
W--> 146 aactnttttt tttcccagc cgcggggctn ttcaagtct tgaacgnaac tcctcngtc 720
W--> 147 nttccacang gnetcccccc tantntntaa ccgcgtntcn tctatnttg gngtccccgn 780
W--> 148 ntncatacat gncngagtan aagaagctn ancctccna nnnngntctc cgcccccaa 840
W--> 149 tttntccctt ctctcccttt nancntctaa atatattctt tnttgggnnt naanaagggg 900
W--> 150 ggcgcanaaa nacctntctc cggggggggg tgtgggncct nnanaaacc cctttctnt 960
W--> 151 tntnnncccc cctccngggg ggctccnccc tccctntttg ttttcccnc ctannaatcc 1020
W--> 152 ctactcncng gntagttga aaaaacanna acgc 1054

```

154 <210> SEQ ID NO: 6

155 <211> LENGTH: 880

156 <212> TYPE: DNA

157 <213> ORGANISM: Pseudomonas fluorescens

159 <220> FEATURE:

160 <221> NAME/KEY: variation

161 <222> LOCATION: (1)...(880)

162 <223> OTHER INFORMATION: n is a, t, c, or g.

164 <400> SEQUENCE: 6

```

W--> 165 ncnnacgnnt ngnaagtgat caggccnatt aaacnnntga cnaaannaga acangnnngt 60
W--> 166 ctgttactac tcttcaagac caacccaagn cgaccgtgna tagcngncc tntacgcagc 120
W--> 167 atcngttccn catttagatt nntatccatc cntaagtttc nccgggtcag aacgntnctt 180
W--> 168 gacgtacaac ccatanngcg ggggtannngg nnatttttng ctacctenca tgttttggaa 240
W--> 169 gncnnantnc cntttaatng gnagcnnan ncangcncnn ggggattatt acnactcnac 300
W--> 170 cnttganaa cnttgccact acngcnggnc ccccgcnng tccnggnctc cctgcccac 360

```

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```

W--> 171 ttcccttgtc tcccgnccctc tntnccccct tttncgctcn ncttctgggtg tncgnttccc 420
W--> 172 ctccccccng tcctcnttca ncnctnngcg tctngggcac ctngnecgnnc tcttccctnc 480
W--> 173 tgccccctct nccccccntt cgttntance cctctctena cntncttcat cccgtccctn 540
W--> 174 ttcttntctc cncctnccn cctntccta ntccntctgt cccnctnecg tcntcgtctn 600
W--> 175 cctnccncc tntcgaactt cncntgttg nccnccccgc ngngncttct ctngtcttct 660
W--> 176 cccgtcngcn gctcagnncc cntccttccn ttntctnctnn ctgtccgnen gcgnnccctgt 720
W--> 177 nccnccgncc cctagnnnng ncgcgcctcn gcnnccctgt cccnngntnt nntctttctg 780
W--> 178 cncctgtgctc nntnttctnt tntcnnctcg cccatccnct nccctctntnn nncgtngntt 840
W--> 179 cnccttctag gncennattc cnannncngg ccnttncccc 880

```

181 <210> SEQ ID NO: 7

182 <211> LENGTH: 779

183 <212> TYPE: DNA

184 <213> ORGANISM: Pseudomonas fluorescens

186 <220> FEATURE:

187 <221> NAME/KEY: variation

188 <222> LOCATION: (1)...(779)

189 <223> OTHER INFORMATION: n is a, t, c, or g.

191 <400> SEQUENCE: 7

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W--> 192 ncaanncaga tcctgnaaaa cgggaaaggt tccnttcagg tacgctactt gtgtataaaa 60
W--> 193 gtcaggggccc aaacgccccca ggtgcaacaa ctggtcnaag gctacntggc gggttacaac 120
W--> 194 cgtgcgctgg tcnaacgcaa ggccaaaggc ctgcccnaac aatgtgccag cnaatgggta 180
W--> 195 cggccgatca cggcgctgga cctgggtcaag ttgacccgcc ggctgttggt ggaagggggc 240
W--> 196 gtcggccagt tcgcnangc cctggccggc gcgcaaccgc cccaggcnac cgcactcgcg 300
W--> 197 ggcaccccggt tcaccgggtt cgcggccgcc gcaaccgcgc agcagcnttt tgccctgaaa 360
W--> 198 cgcggcaaca atgcnttggg ccacgcggcan cnaacgctcg ttcaatgggc cgttnggaaat 420
W--> 199 ntttgcttgg caaaccccc atttttcccg ttggggttagg cggcattcct tttctnacca 480
W--> 200 naaagcacct gaaccattcc cgggcaanct tggaaattct tgggccccng ngcctgccaa 540
W--> 201 ttttgccnaa aaatcaanat cggtttcaac canccnctt gcctggaacc aaaccgtcaa 600
W--> 202 aaactccaaa aaaattcccc cttncnctt gcaatcnntc naagaaccaa cctttttttn 660
W--> 203 ccaaggnatt ttttttcna naaacncaa angntttnt naattttacn acttaaggcc 720
W--> 204 anttnnaaag tncccaattt tttanngtcc aatttgnccc nattttaaag gctccgggtt 779

```

206 <210> SEQ ID NO: 8

207 <211> LENGTH: 848

208 <212> TYPE: DNA

209 <213> ORGANISM: Pseudomonas fluorescens

211 <220> FEATURE:

212 <221> NAME/KEY: variation

213 <222> LOCATION: (1)...(848)

214 <223> OTHER INFORMATION: n is a, t, c, or g.

216 <400> SEQUENCE: 8

```

W--> 217 gccnnnnccn nattatncaa gntctaagtg ttnnaccana tnccaaggac ataatgactt 60
W--> 218 ncttttatta antgtccgga ccatnccata tncaaccgtg canaccgtna acttnaccca 120
W--> 219 ncatgnctcc gcntgtcgta tttatanncc ccataagctt cncctgtcag aacgttncaa 180
W--> 220 taggtacant natactgcnc ggcnatggc attttggctt tctttatggt nggnagtctn 240
W--> 221 aacagccttt ttatggagcg tccacagcta tagggggaaa ntntatttca acnctggcna 300
W--> 222 aantttgaaa aactnaganc ttcnnnggtn tataggggta tccentgacc aaannccnct 360
W--> 223 aattccnaen ctttgnctcc acttctctcc tngcgcgnet ttaccnngng ccccgccct 420
W--> 224 tccccnngn ncntnggnca cngggggaaa ngnnntcncc cctgtggttt ctcccnctcn 480
W--> 225 tngnnnnncc tegtgnntcc cggnnccctn cccccngtt cggaaactnt ctccccnctn 540

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RAW SEQUENCE LISTING

DATE: 05/28/2002

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TIME: 20:01:34

Input Set : A:\PTO.txt

Output Set: N:\CRF3\05282002\I673605A.raw

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W--> 226 cccnccgcgng tgcgtctnnn tnncccnngn tncnccngnt tncnccngcn ccttttcctc 600
W--> 227 cccccccccc ttanccngga nccctctccc tncgcntggc cngccccccn ggncctctcc 660
W--> 228 ctntnccctc ggngncncnc gncgncctcc ttncnttcg cctcctccnn centcnctc 720
W--> 229 cncctntncc nntcccnccc ctctnnntc cccctgccc nnnncnccgg centtcgntc 780
W--> 230 ctcnnnnnnn tncctgngcc cgcgtgcnch gtngcgnccc gctntcctgc ctgtcncccc 840
W--> 231 cccncccc 848
233 <210> SEQ ID NO: 9
234 <211> LENGTH: 533
235 <212> TYPE: DNA
236 <213> ORGANISM: Pseudomonas fluorescens
238 <220> FEATURE:
239 <221> NAME/KEY: variation
240 <222> LOCATION: (1)...(533)
241 <223> OTHER INFORMATION: n is a, t, c, or g.
243 <400> SEQUENCE: 9
W--> 244 tatttggtgta taagntcagc gccagcagtg accgatgtca ccgataccat cgacaccagc 60
245 accgtttcgc tcacagcgac ttcgacggtg gccgaagggtg ggactgtcgt ttacaccgcc 120
W--> 246 tcgggttaacg caccctgtgac cgacgctccg ttggttatca ccctgttcca aacggccana 180
W--> 247 ccctcnccat tccggttggn gccagcancn gcaccgtgaa cttcgtgaca ccaaaccgacg 240
W--> 248 ccctcgcggg cggcgataac ctgagcgtga agattgatga cgccaagggt ggcaattacn 300
W--> 249 aaaaactgga catcgacgcc accccggcgg acaccaccgt taccgatntg caggacacta 360
W--> 250 ccggcctgac cttgantgca accgatagcg ttgctgaang cggntcgatc gtttacaccg 420
W--> 251 caacattgac caacgccncc ggntcgctg tcnctgtnac cctgaacaac ngngcgggtga 480
W--> 252 tcaacatccc tgcgggngtt tcccccccg tncntantcta cacgngngaa aaa 533
254 <210> SEQ ID NO: 10
255 <211> LENGTH: 591
256 <212> TYPE: DNA
257 <213> ORGANISM: Pseudomonas fluorescens
259 <220> FEATURE:
260 <221> NAME/KEY: variation
261 <222> LOCATION: (1)...(591)
262 <223> OTHER INFORMATION: n is a, t, c, or g.
264 <400> SEQUENCE: 10
265 tgattgtgta taagatcagc cagcaaggcg ccgtcgtcgg gttggttaaag cccaccagc 60
W--> 266 aacttgcca gggaactctt gcccgagccg ctgcggccaa tgatgccnat tttctcgccc 120
W--> 267 ggcttganca ccaggtnnat attctacacc tngggnttct gctgggttcgg anaaatnaaa 180
W--> 268 nttcaactna nngnattcca acggccctt ccagaacttt cnggtcangg ggngctcntc 240
W--> 269 caaattgcgc tcttggggca gctccntcat ctggctcgana ganatcttgg tcccccccc 300
W--> 270 ctggttggtat cgggtcntca ngcccnacaa cnaaaccaac nggctgaggg cgcgaccgct 360
W--> 271 gaacatntnt cangcgacca nccccccnt gctcangcna ccggcgatna tcaagtntac 420
W--> 272 nccnaaaana anatgaccac cccngccagt tncctggatca acaaagtgat gttctttgcc 480
W--> 273 nggcgggana acatcttcac ccccanttct aagcggctga aggtgccgat agtctgttcc 540
W--> 274 cncctggtatt ggcgtncnc cccccntact antcaacnch tggnaaaaaa a 591
276 <210> SEQ ID NO: 11
277 <211> LENGTH: 1249
278 <212> TYPE: DNA
279 <213> ORGANISM: Pseudomonas fluorescens
281 <220> FEATURE:
282 <221> NAME/KEY: variation

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/673,605A

DATE: 05/28/2002
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Input Set : A:\PTO.txt

Output Set: N:\CRF3\05282002\I673605A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 9,18,20,28,44,80,87,88,94,97,98,103,104,105,109,114,116,119
Seq#:1; N Pos. 120,121,124,129,132,134,226,235,261,383,389,391,410,412,418
Seq#:1; N Pos. 433,452,459,485,502,530,563,587,592,597,621,623,632,635,653
Seq#:1; N Pos. 659,678,681,682,690,693,695,698,705,706,715,719,720,724,727
Seq#:1; N Pos. 729,731,732,733,734,735,736,738,739,742,744,750,753,757,761
Seq#:1; N Pos. 762,763,766,768,769,775,782,788,791,793,796,797,803,807,819
Seq#:1; N Pos. 823,824,832,833,834,837,838,845,850,855,858,860,861,869,875
Seq#:1; N Pos. 880,884,891,900,901,902,904,905,906,913,914,917,927,931,940
Seq#:1; N Pos. 945,950,951,953,954,955,968,975,978,981,984,986,994,996,1000
Seq#:1; N Pos. 1002,1003,1014,1016,1019,1021,1024,1026,1039,1040,1042,1044
Seq#:1; N Pos. 1046,1049,1051,1052,1053,1063,1065,1068,1072,1074,1076,1087
Seq#:2; N Pos. 3,8,9,13,27,66,81,94,97,106,108,117,129,175,195,208,211,220
Seq#:2; N Pos. 223,247,252
Seq#:3; N Pos. 4,15,23,39,45,53,61,92,94,111,123,125,129,151,158,159,173
Seq#:3; N Pos. 194,216,237,238,243,252,256,274,277,279,287,289,294,299,303
Seq#:3; N Pos. 308,323,327,334,337,356,358,365,367,371,389,390,391,393,402
Seq#:3; N Pos. 414,416,417,425,428,434,450,452,456,466,467,468,477,482,486
Seq#:3; N Pos. 492,493,499,506,508,509,510,513,520,521,522,523,528,538,546
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Seq#:3; N Pos. 803,806,810,813,814
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Seq#:5; N Pos. 2,6,10,28,58,74,105,116,135,141,143,146,153,159,162,163,174
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Seq#:5; N Pos. 916,937,941,942,944,959,962,964,965,966,977,987,996,1009
Seq#:5; N Pos. 1014,1015,1027,1029,1032,1048,1049
Seq#:6; N Pos. 1,3,4,8,9,11,13,27,35,36,37,42,46,47,54,56,57,90,99,106,108

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/673,605A

DATE: 05/28/2002
TIME: 20:01:35

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Seq#:7; N Pos. 732,745,746,757,761
Seq#:8; N Pos. 4,5,6,7,9,11,17,22,33,34,39,42,61,72,85,92,103,109,115,121
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Seq#:10; N Pos. 108,128,138,152,156,172,177,181,189,191,192,194,222,228,233
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Seq#:12; N Pos. 298,345,346,347,349,352,359
Seq#:13; N Pos. 18,23,29,33,39,41,43,53,62,64,77,78,85,88,100,104,106,113
Seq#:13; N Pos. 114,116,117,128,137,141,145,146,150,153,161,165,168,171,174
Seq#:13; N Pos. 181,182,193,200,201,202,203,209,211,218,220,223,225,228,230
Seq#:13; N Pos. 237,252,262,268,269,270,286,293,297,303,311,316,319,324,328
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Seq#:13; N Pos. 607,610,621,624,625,636,663
Seq#:14; N Pos. 16,21,32,36,38,50,51,61,68,87,92,97,100,104,112,130,131,137
Seq#:14; N Pos. 153,166,170,171,173,183,189,209,215,237,241,251,254,257,260
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Seq#:14; N Pos. 475,476,481,484,493,500,504,506,512,514,518,531,535,538,541
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Seq#:14; N Pos. 595,599,600,607,608,609,610,611,619,625,626,628,629,636,639
Seq#:14; N Pos. 640,641,644,645,649,650,654,655
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Seq#:15; N Pos. 322,324,330,331,335,337,341,344,349,352,353,360,362,364,370
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Seq#:15; N Pos. 1251,1253,1254,1258,1267,1276,1280,1284,1285,1288,1289,1291
Seq#:15; N Pos. 1301,1307,1313,1326,1327,1329,1332,1337,1339,1340,1344,1354
Seq#:15; N Pos. 1361,1368,1369,1378,1393,1402,1404,1409,1410,1414,1417,1422
Seq#:15; N Pos. 1430,1433,1437,1438,1440,1444,1446,1454,1456,1469,1471,1478
Seq#:15; N Pos. 1480,1485,1486,1487,1494,1505,1507,1508,1514,1515,1525,1530
Seq#:15; N Pos. 1532,1540,1546,1548,1555,1557,1558,1568,1574,1579,1582,1586
Seq#:15; N Pos. 1590,1591,1598,1614,1615,1620,1621,1627,1628,1634,1635,1638
Seq#:15; N Pos. 1649,1652,1656,1659,1661,1667,1669,1671,1672
Seq#:16; N Pos. 2,26,31,35,38,41,51,72,81,82,86,94,100,101,102,108,110,111
Seq#:16; N Pos. 115,128,137,142,143,153,155,170,172,177,178,179,184,190,193
Seq#:16; N Pos. 194,198,201,204,208,209,210,212,219,224,227,229,232,235,246
Seq#:16; N Pos. 251,258,262,263,266,267,277,279,281,291,295,299,302,303,307

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PATENT APPLICATION: US/09/673,605ADATE: 05/28/2002
TIME: 20:01:35

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Seq#:16; N Pos. 668,670,677,681,685,688,689,693,694,696,697,702,703,707,708
Seq#:16; N Pos. 709,710,716,717
Seq#:17; N Pos. 3,4,5,7,8,9,10,12,25,33,36,40,43,44,50,61,69,70,73,74,77,78
Seq#:17; N Pos. 93,104,106,116,128,157,162,163,165,169,174,177,178,181,184
Seq#:17; N Pos. 187,188,195,196,197,201,208,216,217,220,221,227,230,244,256
Seq#:17; N Pos. 260,262,265,266,274,281,282,293,298,303,307,310,327,333,334
Seq#:17; N Pos. 341,348,354,357,360,367,369,373,377,383,385,393,394,397,399
Seq#:17; N Pos. 406,407,408,409,420,435,441,443,445,446
Seq#:18; N Pos. 2,15,21,25,45,49,65,66,67,74,78,84,89,94,95,98,101,105,106
Seq#:18; N Pos. 107,108,115,116,126,129,132,133,144,152,159,167,174,175,178
Seq#:18; N Pos. 184,185,199,208,210,220,221,224,227,229,235,236,247,248,251
Seq#:18; N Pos. 253,258,260,265,270,275,277,281,291,292,299,305,319,326,333
Seq#:18; N Pos. 339,344,345,353,356,368,380,396,406,411,412,414,418,422
Seq#:19; N Pos. 15,42,45,47,52,98,99,101,107,108,114,126,135,136,138,143
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Seq#:20; N Pos. 2,27,29,32,71,81,82,92,102,107,128,131,144,153,165,168,170
Seq#:20; N Pos. 173,177,199,201,204,206,207,209,210,211,212,216
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Seq#:22; N Pos. 567,574,579
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Seq#:23; N Pos. 358
Seq#:24; N Pos. 2,15,29,40,49,51,58,64,66,67,68,74,93,97,101,116,120,124
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